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Title *A Review of Mutual Coupling in Phased Arrays*

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Abstract

Adaptive array processing has been used in many fields such as radar, sonar and wireless mobile communication. The performance of phased array in the suppression of interferences is controlled greatly by the correlations between the elements of the antenna array. Researchers have proposed several methods to circumvent the mutual coupling effect in antenna array. The present report discusses the methods used for the compensation of mutual coupling effect, and the consequences of the inclusion of mutual coupling factor on the array performance. Moreover, various algorithms used for the mitigation of the correlations between the antenna elements have been included.